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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/812,452	03/29/2004	David E. Slobodin	107773-132655	3144
25943 7	590 06/30/2005		EXAMINER	
SCHWABE, WILLIAMSON & WYATT, P.C. PACWEST CENTER, SUITE 1900			BLACKMAN, ROCHELLE ANN J	
1211 SW FIFTH AVENUE			ART UNIT	PAPER NUMBER
PORTLAND,	OR 97204		2851	

DATE MAILED: 06/30/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

		AK	
	Application No.	Applicant(s)	
	10/812,452	SLOBODIN ET AL.	
Office Action Summary	Examiner	Art Unit	
	Rochelle Blackman	2851	
The MAILING DATE of this communication app Period for Reply	pears on the cover sheet with the	correspondence address	
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply If NO period for reply is specified above, the maximum statutory period was reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be to within the statutory minimum of thirty (30) do will apply and will expire SIX (6) MONTHS from the application to become ABANDON.	imely filed ays will be considered timely. In the mailing date of this communication. IED (35 U.S.C. § 133).	
Status			
1) Responsive to communication(s) filed on 29 M	<u>arch 2004</u> .		
,	action is non-final.		
3) Since this application is in condition for allowar	•		
closed in accordance with the practice under E	x parte Quayle, 1935 C.D. 11, 4	153 O.G. 213.	
Disposition of Claims			
4) Claim(s) 1-20 is/are pending in the application.			
4a) Of the above claim(s) is/are withdraw	wn from consideration.		
5) Claim(s) is/are allowed.			
6) Claim(s) <u>1-20</u> is/are rejected.			
7) Claim(s) is/are objected to.			
8) Claim(s) are subject to restriction and/or	r election requirement.		
Application Papers			
9) The specification is objected to by the Examine			
10)⊠ The drawing(s) filed on 29 March 2004 is/are: a		•	
Applicant may not request that any objection to the		·	
Replacement drawing sheet(s) including the correcti			
11) The oath or declaration is objected to by the Ex	aminer. Note the attached Offic	e Action or form P1O-152.	
Priority under 35 U.S.C. § 119			
 12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority documents 		a)-(d) or (f).	
Certified copies of the priority documents	s have been received in Applica	tion No	
Copies of the certified copies of the prior		ed in this National Stage	
application from the International Bureau	• • •		
* See the attached detailed Office action for a list	of the certified copies not receiv	red.	
Attachment(s)			
) Notice of References Cited (PTO-892)	4) Interview Summar	y (PTO-413)	
Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail [Date	
Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 7/06/04.	6) Other:	Patent Application (PTO-152)	

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DETAILED ACTION

Claim Objections

Claim 10 is objected to because of the following informalities: the claim recites the limitation "the processor" in line 1 of the claim. There is insufficient antecedent basis for this limitation in the claim. Appropriate correction is required.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claims 1-20 are rejected under 35 U.S.C. 102(e) as being anticipated by Erchak et al. (U.S. Patent Application Publication No. 2005/0040424).

Regarding claim 1, Erchak discloses a projection system (for example, see FIG. 11) comprising: a solid state light source (see 1110 of FIG. 11); a sensor (see 1520 of FIG. 11) either coupled to or integrated with the solid state light source to monitor a region of the solid state light source for a thermal condition, and output a signal indicative of the thermal condition of the monitored region; and a controller (see 1510 of FIG. 11) coupled to the sensor to conditionally initiate one or more thermal management

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actions based at least in part on the thermal condition of the region as indicated by the

signal (see pg. 8, paragraph [0129]).

Regarding claim 2, Erchak discloses wherein the solid state light source comprises a selected one of a light emitting diode and a laser diode (see 1110 of FIG. 11).

Regarding claim 3, Erchak discloses wherein the projection system further comprises an active cooling arrangement (see 1510 of FIG. 110 thermally coupled to the solid state light source, and the controller is coupled to the active cooling arrangement to control (also see 1510 of FIG. 11) its operations, varying an amount of cooling the active cooling arrangement imparts on the solid state light source based at least in part on the thermal condition of the region as indicated by the signal (see pg. 8, paragraph [0029]).

Regarding claim 4, Erchak discloses wherein the active cooling arrangement comprises a fan (see *fans* in paragraph [0129] of pg. 8), and the controller controls a speed of the fan, varying an amount of air flow the fan drives pass the solid state light source (although the function of the *fan* is not disclosed, the "air flow" and/or "speed" of the *fan* is considered to controlled or regulated in some sort of manner or capable of being controlled or regulated in the same manner thereof, to effectively cool "solid state light source" 1110).

Regarding claim 5, Erchak discloses wherein the active cooling arrangement comprises a cooling pipe (see *heat pipes* in paragraph [0129] of pg. 8), and the controller controls a flow rate of the cooling pipe, varying an amount of fluid flow pass

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the solid state light source (although the function of the *heat pipes* is not disclosed, the "flow rate" of the *heat pipes* is considered to be controlled or regulated in some sort of manner or capable of being controlled or regulated in the same manner thereof, to effectively cool the "solid state light source" 1110).

Regarding claim 6, Erchak discloses wherein the active cooling arrangement comprises a thermoelectric cooler (see *thermoelectric coolers* in paragraph [0129]), and the controller controls an operation level of the thermoelectric cooler, varying an amount of heat being removed from the solid state light source (although the function of the *thermoelectric coolers* is not disclosed, the "operation level" of the *thermoelectric coolers* is considered to be controlled or regulated in some sort of manner or capable of being controlled or regulated in the same manner thereof, to effectively cool the "solid state light source" 1110).

Regarding claim 7 and 8, Erchak discloses wherein the projection system further comprises drive circuitry (see *power input to LED 1110* and *higher drive currents* in paragraph [0129] of pg. 8) coupled to the solid state light source to drive the solid state light source, and the controller is further coupled to the drive circuitry to influence its operation, indicating to the drive circuitry to vary an amount of drive voltage or current the drive circuitry applies to the solid state light source, based at least in part on the thermal condition indicated by the signal (see lines 10-14 of paragraph [0129] of pg. 8).

Regarding claim 9, Erchak discloses wherein the projection system further comprises a processor (see lines 10-14 of paragraph [0129] of pg. 8) coupled to the light source to control the light source to project an image, and an input interface

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coupled to the processor to facilitate input to the processor pixel data of the image (see pg. 8, paragraphs [0126-0128] and also see lines 1-14 of paragraph [0129] of pg. 8).

Regarding claim 10, Erchak discloses wherein the processor comprises the controller (also see pg. 8, paragraphs [0126-0128] and lines 1-14 of paragraph [0129] of pg. 8).

Regarding claim 11, Erchak discloses wherein the projection system further comprises a television tuner coupled to the input interface (see pg. 4, paragraph [0099] and pg. 23, claim 33).

Regarding claims 12-18, the "method of operation" in a "projection apparatus" is similarly met by the features and functions of the above-mentioned elements recited for the "projection system" of claims 1 and 3-8.

Regarding claims 19 and 20, the "projection apparatus" is similarly met by the features and functions of the above-mentioned elements recited for the "projection system" of claims 1 and 3.

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Sugawara et al. (U.S. Patent No. 6,322,218), projection type display.

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Rochelle Blackman whose telephone number is (571) 272-2113. The examiner can normally be reached on M-F 8:00-4:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Judy Nguyen can be reached on (571) 272-2258. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

RB

SUPERVISORY PATENT FYAMINES